

DERWENT-ACC-NO: 1998-543192

DERWENT-WEEK: 200305

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TITLE: Heat exchanger panel for roofing and solar powered systems - has passageways formed between panel sheets, and spacing ribs sealing panel sides, whereby open ends of panel provide access to conduits

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PATENT-FAMILY:

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MAIN-IPC			
AU 755151 B	December 5, 2002	N/A	000
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AU 696305 B	September 3, 1998	N/A	020
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WO 9955984 A1	November 4, 1999	E	000
E04D 013/18			
AU 9934005 A	November 16, 1999	N/A	000
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CN 1305557 A	July 25, 2001	N/A	000
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ABSTRACTED-PUB-NO: AU 696305B

BASIC-ABSTRACT:

The panel (13) has an internal fluid passageway formed between a pair of spaced parallel internal sheets (16,17) for fluid flow, and external passageways formed respectively between the internal sheets and external sheets (21,20) which are spaced from the internal sheets.

Spacing ribs (22,24) are located between an internal sheet (16,17), respectively, and external sheet (21,20) to form external conduits (23,25) within the external passageways. A manifold attached to the panel ends, comprising an extending extrusion with a central fluid communication channel for the inflow and outflow of gas to or from the external conduits, respectively. The panel has open ends communicating with a central passageway between the external passageways, and is sealed along the side edges.

ADVANTAGE - Has improved efficiency of solar radiation absorption, or improved heat retention generated by solar radiation. Multiple passageways allow cooling and heating properties of inert gas to be exploited. Can function where solar radiation is minimal or zero. Avoids pressure induced panel failure.

CHOSEN-DRAWING: Dwg.4/9

TITLE-TERMS: HEAT EXCHANGE PANEL ROOF SOLAR POWER SYSTEM PASSAGE FORMING PANEL  
SHEET SPACE RIB SEAL PANEL SIDE OPEN END PANEL ACCESS CONDUIT

DERWENT-CLASS: Q44 Q45 Q74 Q78

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